



EH4700 Series Environmental Enclosure



C1405SM-A (5/06)

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Important Safety Instructions

1. Installation and servicing should be done only by qualified service personnel and conform to all local codes.
2. Unless the unit is specifically marked as a NEMA Type 3, 3R, 3S, 4, 4X, 6, or 6P enclosure, it is designed for indoor use only and it must not be installed where exposed to rain and moisture.
3. Only use replacement parts recommended by Pelco.
4. After replacement/repair of this unit's electrical components, conduct a resistance measurement between line and exposed parts to verify the exposed parts have not been connected to line circuit..
5. The installation method and materials should be capable of supporting four times the weight of the enclosure, pan/tilt, camera and lens combination.

The product and/or manual may bear the following marks:



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within this unit.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying this unit.



To reduce the risk of electrical shock, do not remove cover. No user serviceable parts inside. Refer servicing to qualified service personnel.

CAUTION:
RISK OF ELECTRIC SHOCK. DO NOT OPEN.

Description

Environmental enclosures in the EH4700 Series are used with pan/tilt units or fixed mounts. The enclosures are mounted on the bottom. A lid opens for access for servicing.

Environmental enclosures in the EH4700L Legacy Series are used with pan/tilt units in Pelco's PT780 Series. The enclosures are mounted on the bottom. A lid opens for access for servicing.

The EH4712DB and EH4718DB environmental enclosures are installed by attaching the top of the unit to a mounting surface. A door in the bottom drops open for access for installation or servicing. The top also may be opened for servicing.

MODELS

EH4700 SERIES

EH4718	Environmental enclosure with rear-opening lid. Lid has gas spring to hold it open. 18-inch (45.72 cm) length.
EH4718-1	EH4718 with 120 VAC thermostatically controlled heater and blower.
EH4718-2	EH4718 with 24 VAC thermostatically controlled heater and blower.
EH4718-3	EH4718 with 230 VAC thermostatically controlled heater and blower.
EH4722	Environmental enclosure with rear-opening lid. Lid has gas spring to hold it open. 22-inch (55.88 cm) length.
EH4722-1	EH4722 with 120 VAC thermostatically controlled heater and blower.
EH4722-2	EH4722 with 24 VAC thermostatically controlled heater and blower.
EH4722-3	EH4722 with 230 VAC thermostatically controlled heater and blower.

EH4700L LEGACY SERIES

EH4718L	Environmental enclosure with rear-opening lid. Lid has gas spring to hold it open. 18-inch (45.72 cm) length.
EH4718L-1	EH4718L with 120 VAC thermostatically controlled heater and blower.
EH4718L-2	EH4718L with 24 VAC thermostatically controlled heater and blower.
EH4718L-3	EH4718L with 230 VAC thermostatically controlled heater and blower.
EH4722L	Environmental enclosure with rear-opening lid. Lid has gas spring to hold it open. 22-inch (55.88 cm) length. Obsolete.
EH4722L-1	EH4722L with 120 VAC thermostatically controlled heater and blower.
EH4722L-2	EH4722L with 24 VAC thermostatically controlled heater and blower.
EH4722L-3	EH4722L with 230 VAC thermostatically controlled heater and blower.

EH4700DB SERIES

EH4712DB	Environmental enclosure with bottom-opening door. 12-inch (30.48 cm) length.
EH4712DB-1	EH4712DB with 120 VAC thermostatically controlled heater and blower.
EH4712DB-2	EH4712 DB with 24 VAC thermostatically controlled heater and blower.
EH4712DB-3	EH4712DB with 230 VAC thermostatically controlled heater and blower.
EH4718DB	Environmental enclosure with bottom-opening door. 18-inch (45.72 cm) length.
EH4718DB-1	EH4718DB with 120 VAC thermostatically controlled heater and blower.
EH4718DB-2	EH4718DB with 24 VAC thermostatically controlled heater and blower.
EH4718DB-3	EH4718DB with 230 VAC thermostatically controlled heater and blower.

OPTIONAL ACCESSORIES

BK47-1	Blower kit, 120 VAC, 8 watts
BK47-2	Blower kit, 24 VAC, 8 watts
BK47-3	Blower kit, 230 VAC, 8 watts
HK47-1	Heater kit, 120 VAC, 60 watts
HK47-2	Heater kit, 24 VAC, 50 watts
HK47-3	Heater kit, 230 VAC, 55 watts
LK4500	Lock kit for EH4700DB Series enclosures
O/I-LPP	Preset position lens wire harness
O/I-OUTLET	120 VAC electrical outlet
O/I-PCB	Circuit board with thermostats
SS4718	Sun shroud for EH4718 Series enclosures
SS4722	Sun shroud for EH4722 Series enclosures
T147	Thermal insulation kit for EH4718 and EH4722 Series enclosures
WD47-1	Window defroster and defogger kit, 120 VAC, 15 watts
WD47-2	Window defroster and defogger kit, 24 VAC, 15 watts
WD47-3	Window defroster and defogger kit, 230 VAC, 15 watts

Maintenance

Perform the following maintenance at regularly scheduled intervals to prolong the operational life and appearance of the equipment.

1. Clean the window with a mild non-abrasive detergent in water and a soft cloth to maintain picture clarity.
2. If your enclosure has a blower, clean the foam filter as follows:
 - a. On the bottom front of the enclosure, remove the two screws in the vent grill.
 - b. Remove the vent grill and take out the filter.
 - c. Clean the filter with warm water and mild detergent, dry thoroughly, and replace it in the grill.
 - d. Reinstall the vent grill.

To order replacement filters, use the part number EH470010009.

Exploded Assembly Drawings

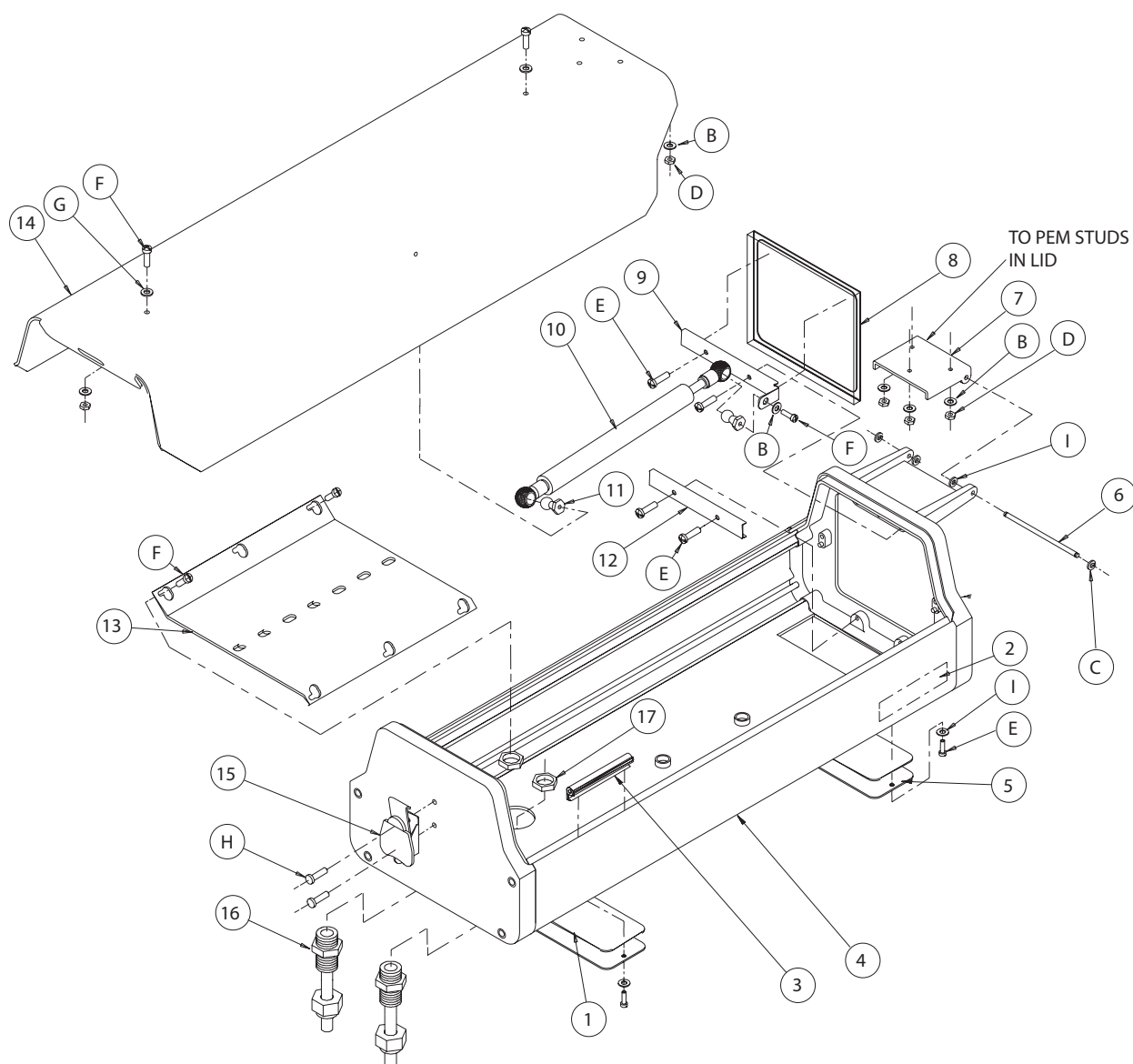


Figure 1. EH4700 Exploded Assembly Diagram

Table A. EH4700 Series Exploded Assembly Parts List

Item	Quantity	Description	Part Number
1	2	Vent Cover Gasket	EH470010015
2	2	Label	LBLG10010
3	54	Seal (inches) (EH4718 Series)	EH470010011
	62	Seal (inches) (EH4722 Series)	EH470010011
4	1	Enclosure Body (EH4718 Series)	EH47004100ASSY
		Enclosure Body (EH4722 Series)	EH47004002ASSY
5	2	Vent Cover	EH47004020COMP
6	1	Lid Attaching Pin	EH470010004
7	1	Lid Bracket	EH47004004COMP
8	1	Window Assembly	EH47001000ASSY
9	1	Upper Window Bracket	EH47004007COMP
10	1	Gas Spring	EH470010005
11	2	Ball End for Gas Spring	EH47004046COMP
12	1	Bottom Window Bracket	EH47004008COMP
13	1	Camera Sled	EH47004003COMP
14	1	Enclosure Lid (EH4718 Series)	EH47004001COMP
		Enclosure Lid (EH4722 Series)	EH47004027COMP
15	1	Latch	LK01-0104-0400
16	2	Gland	HF00-1300-3500
17	2	Gland Nut	HF00-1352-5200
A		Not Used	
B	6	Internal Star Washer, #6	ZH6LWSIS
C	2	Clip	ZH.125ECLIP
D	5	Hex Nut, 6-32	ZH6-32NUTSH
E	9	Screw, #6 x 3/8-inch, Pan Head, Phillips	ZH6-SFX.375SPP
F	5	Screw, 6-32 x .375, Pan Head, Phillips	ZH6-32X.375SPP
G	2	Nylon Washer	ZH131X361X62N
H	2	Rivet	ZHRVT1/8X3/8CE
I	8	Flat Washer, #6	ZH148X375X32C

Note: O/I-PCB circuit board assembly (not shown) is included with all enclosures except EH4718 and EH4722 basic models. See Figure 4 and Table D.

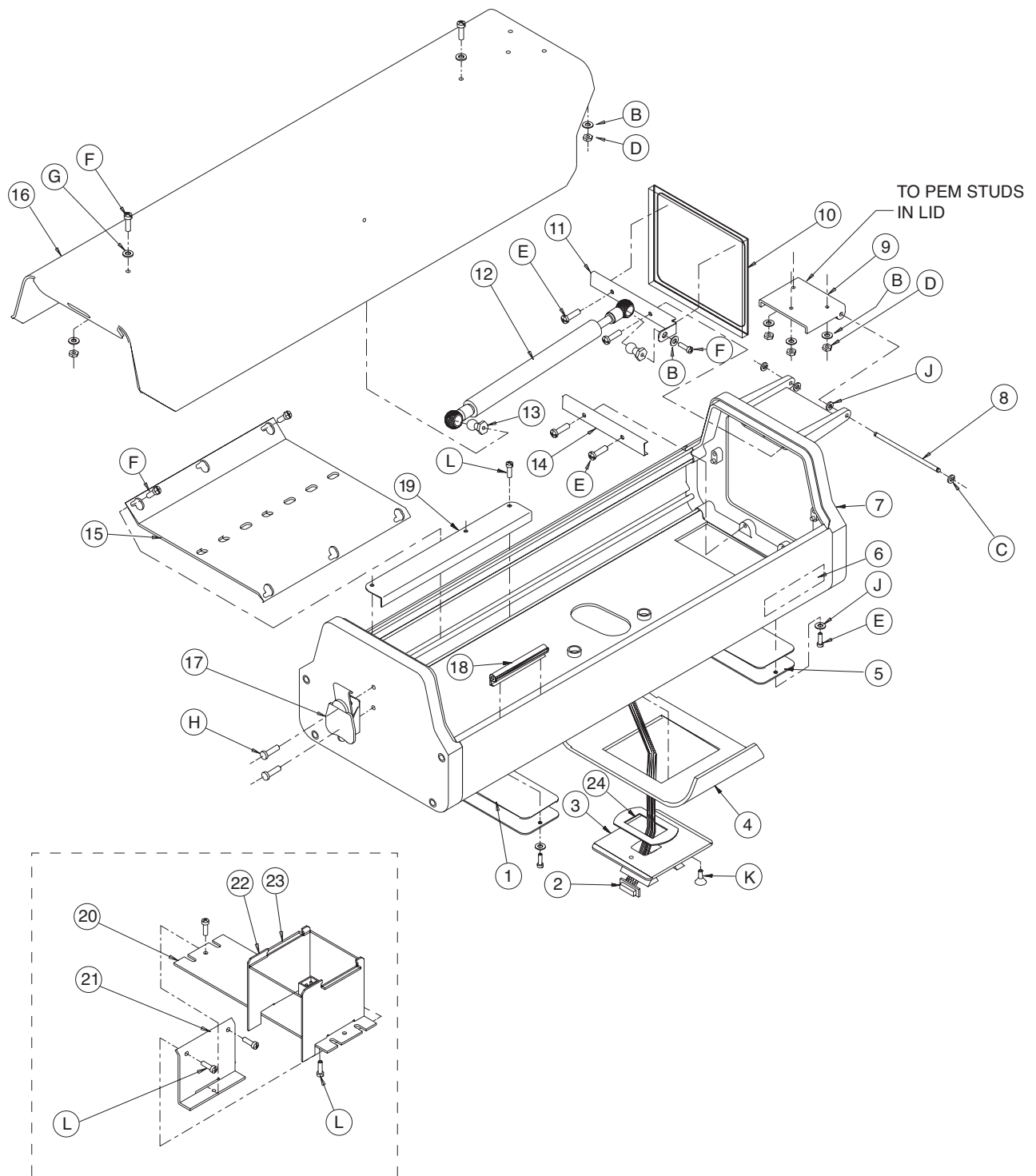


Figure 2. EH4700L Exploded Assembly Diagram

Table B. EH4700L Series Exploded Assembly Parts List

Item	Quantity	Description	Part Number
1	2	Vent Cover Gasket	EH470010018
2	1	RediLINK™ Cable Assembly	WIRA220050
3	1	Tilt Table	9004016COMP
4	1	Tilt Table Cradle	EH47004014COMP
5	2	Vent Covers	EH47004020COMP
6	2	Label	LBLG10010
7	1	Body Assembly (EH4718L Series)	EH47004001ASSY
	1	Body Assembly (EH4722L Series)	EH47004003ASSY
8	1	Lid Attaching Pin	EH470010004
9	1	Lid Bracket	EH47004004COMP
10	1	Window Assembly	EH4001000ASSY
11	1	Upper Window Bracket	EH47004007COMP
12	1	Gas Spring	EH470010005
13	2	Ball End for Gas Spring	EH47004046COMP
14	1	Bottom Window Bracket	EH47004008COMP
15	1	Camera Sled	EH47004003COMP
16	1	Lid (EH4718L Series)	EH47004001COMP
	1	Lid (EH4722L Series)	EH47004027COMP
17	1	Latch	LK01-0104-0400
18	54	Seal (by inch) (EH4718L Series)	EH470010011
	62	Seal (by inch) (EH4722L Series)	EH470010011
19	1	Wire Harness Cover	EH47004024COMP
20	1	Circuit Board	PC9000276ASSY
21	1	Circuit Board Mounting Bracket	EH47004010COMP
22	2	Power Supply Barrier	EH47004040COMP
23	1	Power Supply Barrier Cover	MF00-4700-019A
24	1	Gasket	GS05-0102-001A
A		Not Used	
B	6	Internal Star Washer	ZH6LWSIS
C	2	Clip	ZH.125ECLIP
D	5	Hex Nut, 6-32	ZH6-32NUTSH
E	9	Screw, #6 x 3/8-inch, Pan Head, Phillips	ZH6-SFX.375SPP
F	5	Screw, 6-32 x 3/8, Pan Head, Phillips	ZH6-32X.375SPPG
G	2	Nylon Washer	ZH131X361X62N
H	2	Rivet	ZHRVT1/8X3/8CE
I		Not Used	
J	8	Flat Washer, #6	ZH148X375X32C
K	2	Screw, 1/4-20 x 1/2 Flat Head, Phillips	ZH1/420X.500SFS
L	10	Sheet Metal Screw, #4, Black	ZH4X.250BPP

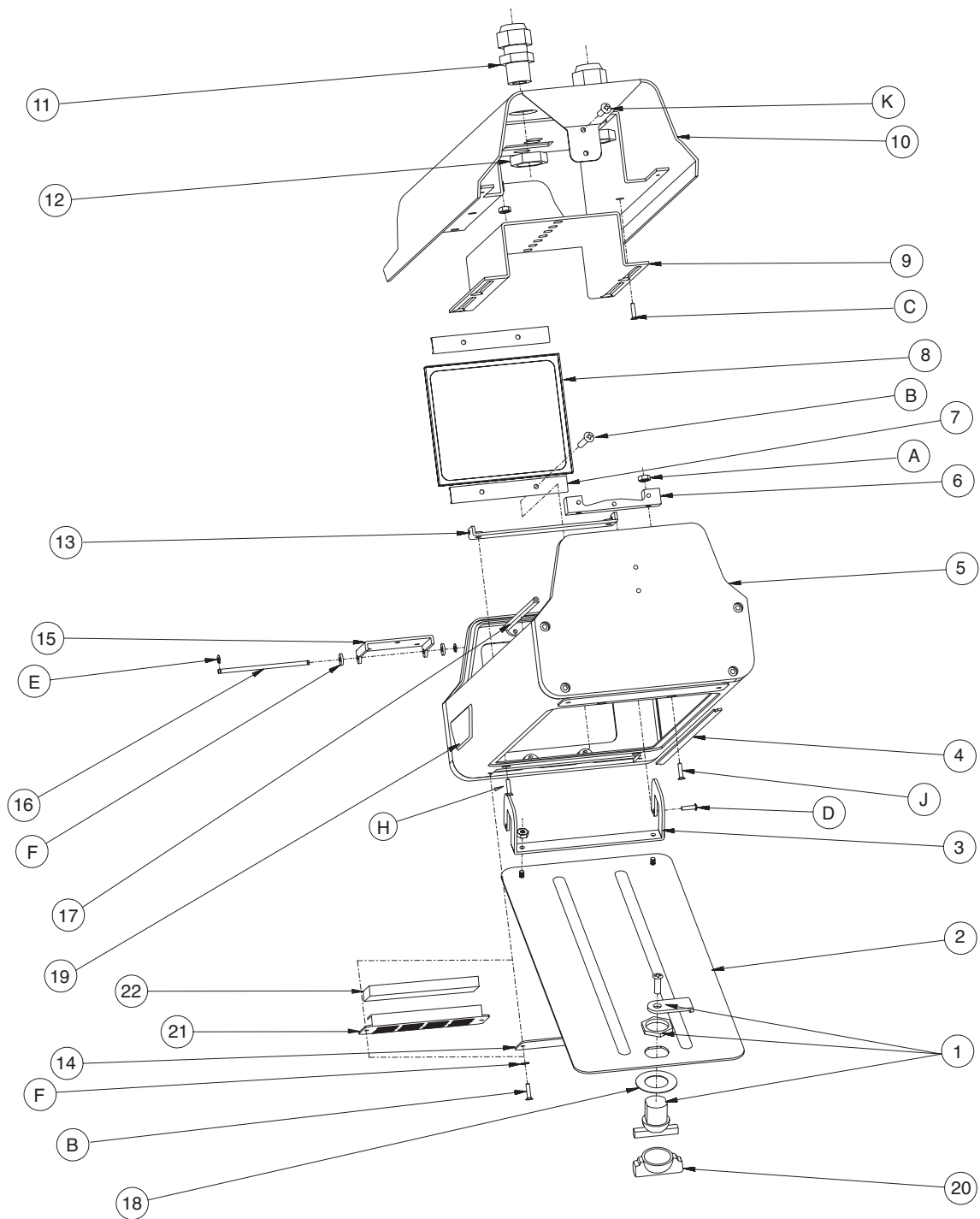


Figure 3. EH4712DB/EH4718DB Series Exploded Assembly Diagram

Table C. EH4712DB/EH4718DB Series Exploded Assembly Parts List

Item	Quantity	Description	Part Number
1	1	Door Latch (1/4 turn)	EH450010014
2	1	Door	
		EH4712DB	EH47004043COMP
		EH4718DB	EH47004033COMP
3	1	Door Hinge	EH47004034COMP
4	3	Gasket (feet)	GS01-0002-0430
5	1	Enclosure Body	
		EH4712DB	EH47004005ASSY
		EH4718DB	EH47004004ASSY
6	1	Door Latch Catch	EH47004030COMP
7	2	Window Bracket	EH47004008COMP
8	1	Window Assembly	EH47001000ASSY
9	1	Camera Sled	EH47004036COMP
10	1	Enclosure Lid with Camera Sled Track	
		EH4712DB	EH47004045COMP
		EH4712DB	EH47004038COMP
11	2	Gland	HF00-1300-3500
12	2	Gland Nut	HF00-1352-3500
13	1	Door Hinge Bracket	EH47004032COMP
14	2	Vent Cover (EH4718DB only)	EH47004020COMP
	2	Vent Cover Gasket (not shown) (EH4718DB only)	EH470010018
15	1	Lid Bracket	EH47004004COMP
16	1	Lid Attaching Pin	EH470010004
17		Seal (inches)	EH470010011
	44	EH4712DB	
	54	EH4718DB	
18	1	Door Latch Gasket	EH450010214
19	2	Label	LBLG10010
20	1	Door Latch Cap, Vinyl	94510014
21	1	Vent Grill (EH4718DB only)	EH47004025COMP
22	1	Foam Filler (EH4718DB only)	EH470010009
A	7	Hex Nut, 6-32	ZH6-32NUTSH
B	8	Screw, #6 x 3/8-inch, Pan Head, Phillips	ZH6-SFX.375SPP
C	2	Screw, 10-32 x 3/8-inch, Pan Head, Phillips	ZH10-32X.375SPP
D	2	Rivet	ZHRVT1/8X3/8CE
E	2	Clip	ZH.125ECLIP
F	8	Flat Washer, #6	ZH148X375X32C
Not Shown	5	Internal Tooth Lock Washer, #6	ZH6LWSIS
H	2	Screw, 6-32 x 3/8-inch, Flat Head, Phillips	ZH6-32X.375SFP
J	2	Screw 6-32 x 3/4-inch, Flat Head, Phillips	ZH6-32X.750SFS
K	2	Screw, #8 x 1/2-inch, Pan Head, Self-Tapping	ZH8-SBTX.500SPP

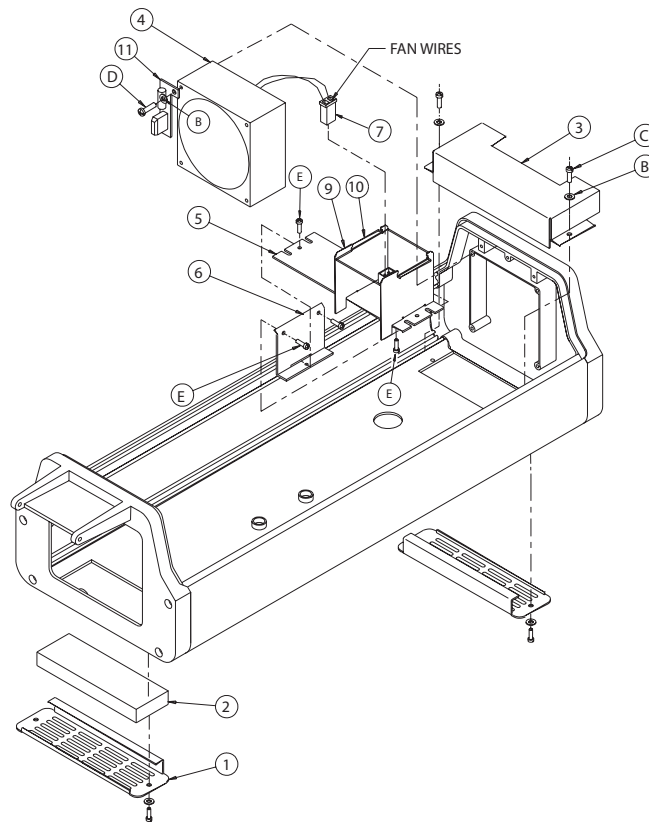


Figure 4. Exploded Assembly Diagram for Blower and Circuit Board

Table D. Exploded Assembly Parts List Blower and Circuit Board

Item	Quantity	Description	Part Number
1	2	Vent Grill	EH470014025COMP
2	1	Foam Filter	EH470010009
3	1	Fan Shroud	EH47004005COMP
4	1	Fan, 120 VAC	EH4600115W3
		Fan, 24 VAC	EH4600105W3
		Fan, 230 VAC	EH4600123W3
5	1	Circuit Board	PCB9000276ASSY
6	1	Circuit Board Mounting Bracket (except EH4700DB Series)	EH47004010COMP
7	1	Connector Plug	CN16-1820-0002
	2	Connector Sockets	CN16-5821-0101
8		Not Used	
9	2	Power Supply Barrier (EH4700DB Series only)	EH47004029COMP
	2	Power Supply Barrier (except EH4700DB Series)	EH47004040COMP
10	1	Power Supply Barrier Cover	MF00-4700-019A
11	1	24VDC Fan Rectifier for -2 models only	PCB9000277ASSY
Not Shown	1	Circuit Board Insulator (EH4700DB Series only)	EH450010256
Not Shown	2	Circuit Board Grounding Clip (EH4700DB Series only)	570010004
A		Not Used	
B	6	Internal Tooth Lock Washer, #6	ZH6LWSIS
C	2	Screw, #6 x 1/4-inch, Pan Head, Phillips	ZH6-SFX.250SPP
D	4	Cap Screw, 6-32 x 3/8-inch, Allen Socket Head	ZH6-32X.375CS
E	7	Sheet Metal Screw, #4, Black	ZH4X.250BPP

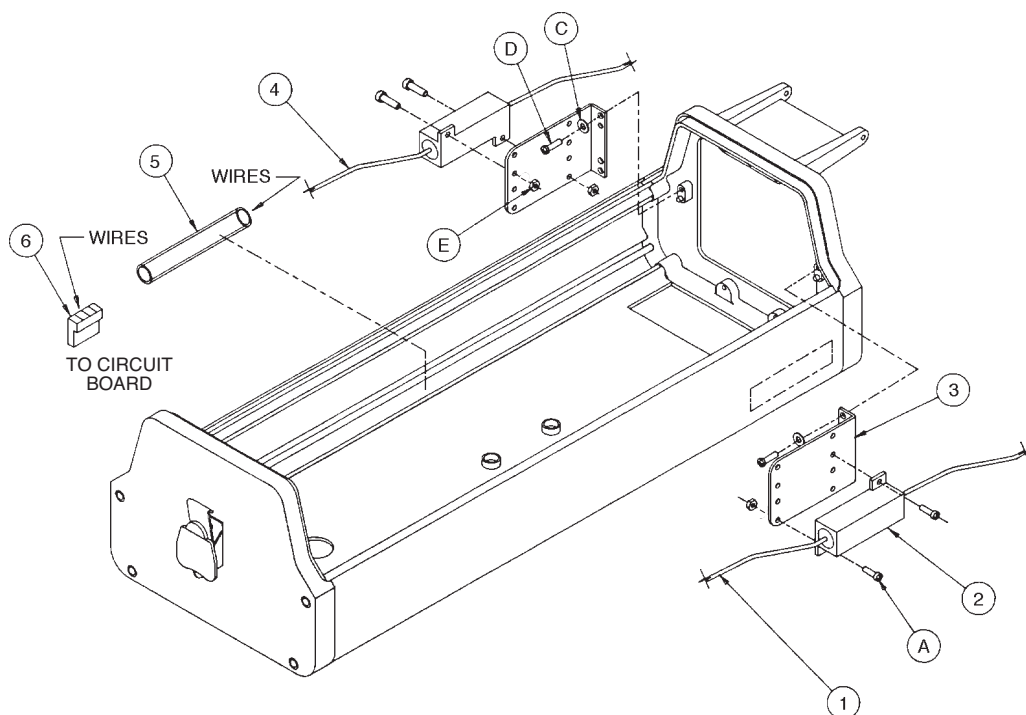


Figure 5. Exploded Assembly Diagram for Heaters

Table E. Exploded Assembly Parts List for Heaters

Item	Quantity	Description	Part Number
1	48 in.	Wire, Red (120 VAC/24 VAC models)	WIR1816-2SG
2	2	Heater, 120 VAC	HTR80220
		Heater, 24 VAC	HTR20024
		Heater, 230 VAC	HTR80220
3	2	Bracket	EH47004011COMP
4	48 in.	Wire, White (120 VAC/24 VAC models)	WIR1816-9SG
	56 in.	Wire, White (230 VAC models)	WIR1816-9SG
5	15	Vinyl Tubing	WW6610005
6	1	Connector Plug	CN16-1820-0004
	4	Connector Sockets	CN16-5821-0101
A	4	Screw, 4-40 x 1/4-inch, Pan Head, Phillips	ZH4-40X.250SPP
B		Not Used	
C	2	Internal Star Washer, #6	ZH6LWSIS
D	2	Screw #6 x 1/4-inch, Pan Head, Phillips	ZH6-SFX.250SPP
E	4	Nex Nut, 4-40	ZH4-40NUTSH

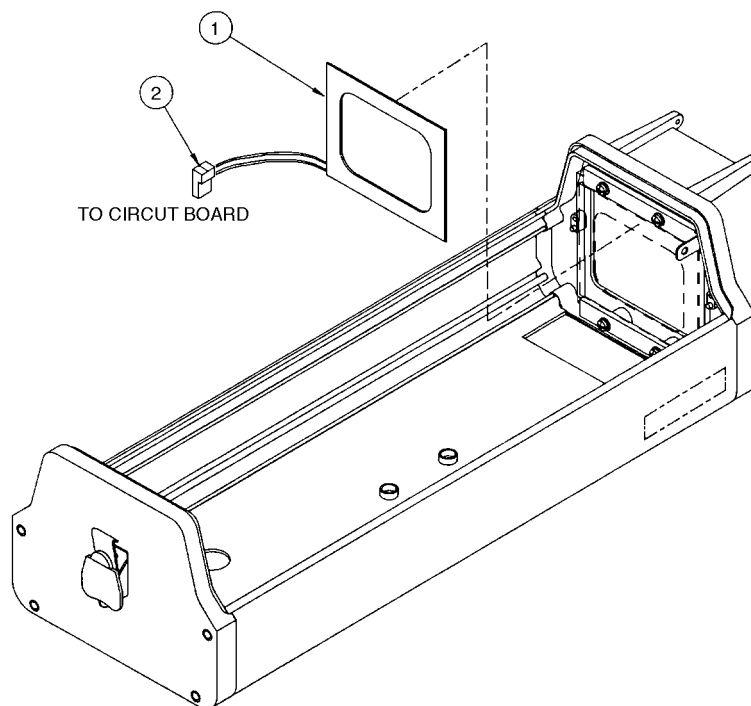


Figure 6. Exploded Asembly Diagram for Defroster

Table F. Exploded Assembly Parts List for Defroster

Item	Quantity	Description	Part Number
1	1	Window Defroster Assembly, 120 VAC Window Defroster Assembly, 24 VAC Window Defroster Asembly, 230 VAC	HT07-0310-0404 HT07-0320-0404 HT07-0330-0404
2	2	Connector Plug	CN16-1820-0002
	2	Connector Sockets	CN16-5812-0101

Wiring Diagrams and Circuit Boards

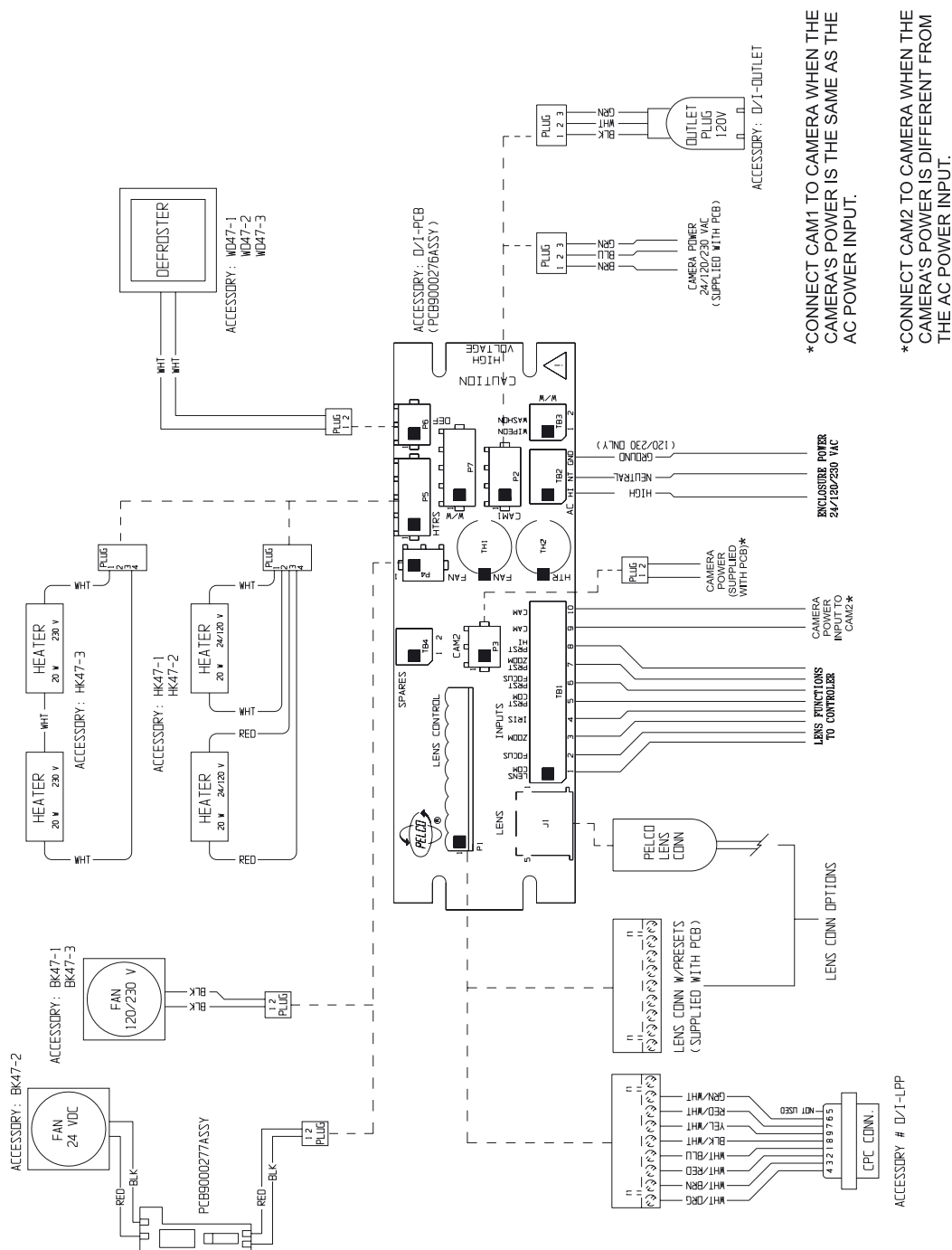


Figure 7. Connector on Optional Circuit Board (O/I-PCB)

WIRING FOR LEGACY (EH4700L) MODELS ONLY

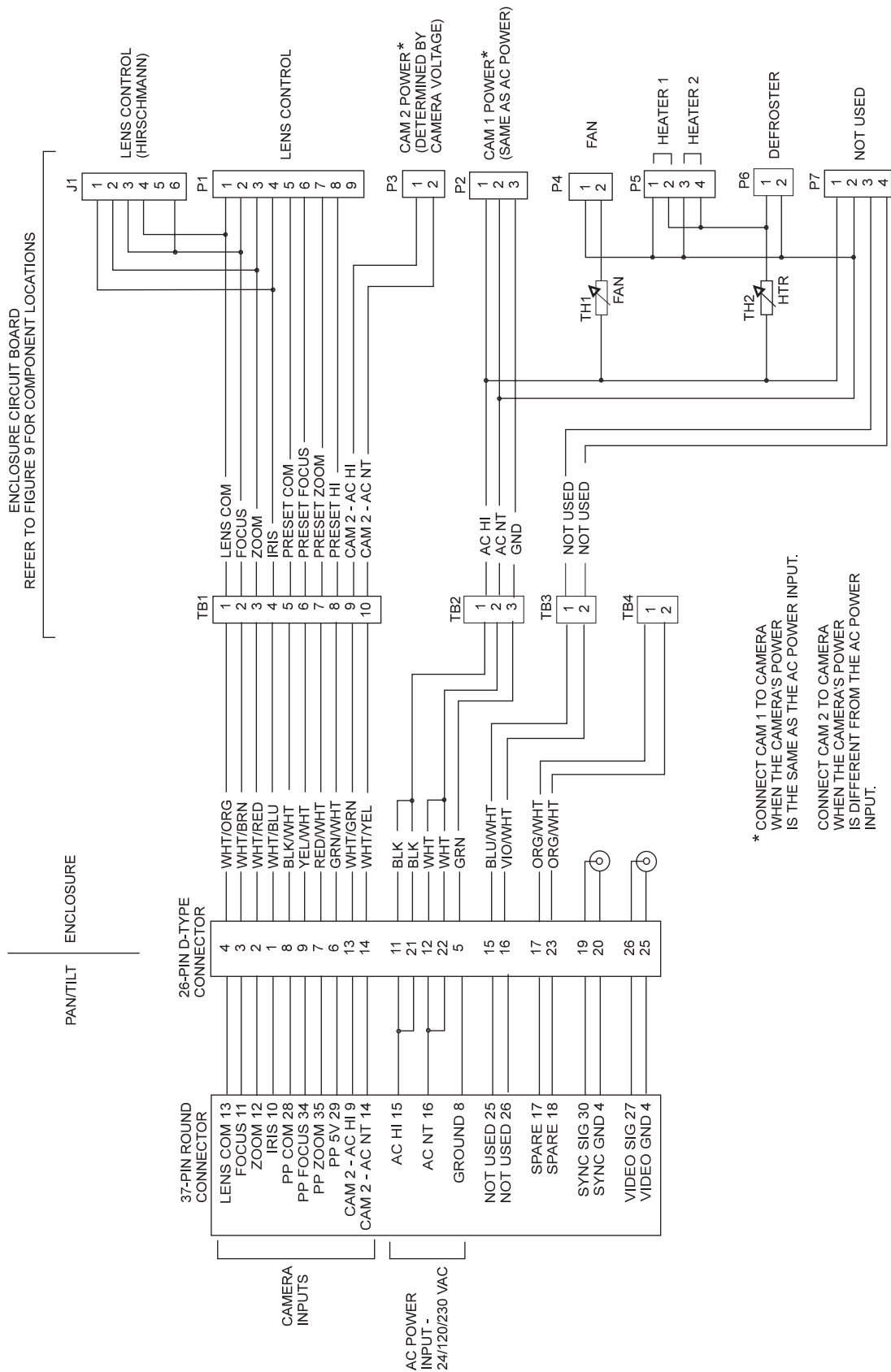


Figure 8. Wiring Diagram for Optional Circuit Board (O/I-PCB)

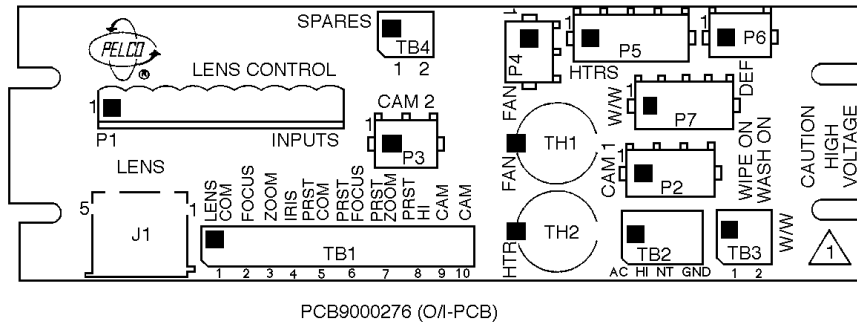


Figure 9. Component Locations for Optional Circuit Board

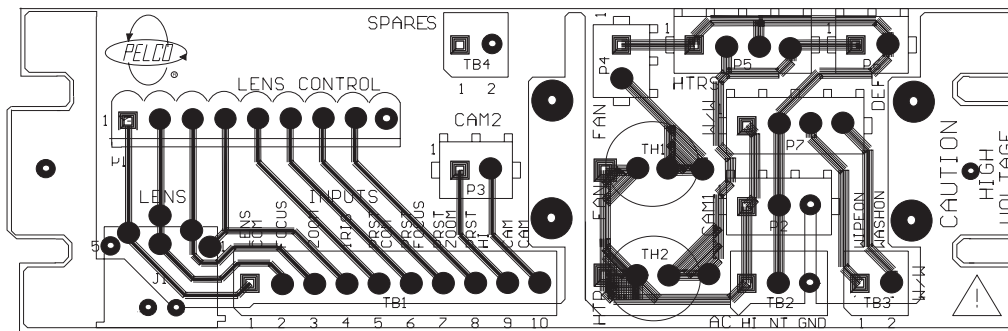


Figure 10. Layout of Traces on Optional Circuit Board

PRODUCT WARRANTY AND RETURN INFORMATION

WARRANTY

Pelco will repair or replace, without charge, any merchandise proved defective in material or workmanship **for a period of one year** after the date of shipment.

Exceptions to this warranty are as noted below:

- Five years on FR/FT/FS Series fiber optic products and TW3000 Series unshielded twisted pair transmission products.
- Three years on Genex® Series products (multiplexers, server, and keyboard).
- Three years on Camclosure® and fixed camera models, except the CC3701H-2, CC3701H-2X, CC3751H-2, CC3651H-2X, MC3651H-2, and MC3651H-2X camera models, which have a five-year warranty.
- Three years on PMCL200/300/400 Series LCD monitors.
- Two years on standard motorized or fixed focal length lenses.
- Two years on Legacy®, CM6700/CM6800/CM9700 Series matrix, and DF5/DF8 Series fixed dome products.
- Two years on Spectra®, Esprit®, ExSite™, and PS20 scanners, including when used in continuous motion applications.
- Two years on Esprit® and WW5700 Series window wiper (excluding wiper blades).
- Two years (except lamp and color wheel) on Digital Light Processing (DLP®) displays. The lamp and color wheel will be covered for a period of 90 days. The air filter is not covered under warranty.
- Eighteen months on DX Series digital video recorders, NVR300 Series network video recorders, and Endura™ Series distributed network-based video products.
- One year (except video heads) on video cassette recorders (VCRs). Video heads will be covered for a period of six months.
- Six months on all pan and tilts, scanners or preset lenses used in continuous motion applications (that is, preset scan, tour and auto scan modes).

Pelco will warrant all replacement parts and repairs for 90 days from the date of Pelco shipment. All goods requiring warranty repair shall be sent freight prepaid to Pelco, Clovis, California. Repairs made necessary by reason of misuse, alteration, normal wear, or accident are not covered under this warranty.

Pelco assumes no risk and shall be subject to no liability for damages or loss resulting from the specific use or application made of the Products. Pelco's liability for any claim, whether based on breach of contract, negligence, infringement of any rights of any party or product liability, relating to the Products shall not exceed the price paid by the Dealer to Pelco for such Products. In no event will Pelco be liable for any special, incidental or consequential damages (including loss of use, loss of profit and claims of third parties) however caused, whether by the negligence of Pelco or otherwise.

The above warranty provides the Dealer with specific legal rights. The Dealer may also have additional rights, which are subject to variation from state to state.

If a warranty repair is required, the Dealer must contact Pelco at (800) 289-9100 or (559) 292-1981 to obtain a Repair Authorization number (RA), and provide the following information:

1. Model and serial number
2. Date of shipment, P.O. number, Sales Order number, or Pelco invoice number
3. Details of the defect or problem

If there is a dispute regarding the warranty of a product which does not fall under the warranty conditions stated above, please include a written explanation with the product when returned.

Method of return shipment shall be the same or equal to the method by which the item was received by Pelco.

RETURNS

In order to expedite parts returned to the factory for repair or credit, please call the factory at (800) 289-9100 or (559) 292-1981 to obtain an authorization number (CA number if returned for credit, and RA number if returned for repair).

All merchandise returned for credit may be subject to a 20% restocking and refurbishing charge.

Goods returned for repair or credit should be clearly identified with the assigned CA or RA number and freight should be prepaid. Ship to the appropriate address below.

If you are located within the continental U.S., Alaska, Hawaii or Puerto Rico, send goods to:

Service Department
Pelco
3500 Pelco Way
Clovis, CA 93612-5699

If you are located outside the continental U.S., Alaska, Hawaii or Puerto Rico and are instructed to return goods to the USA, you may do one of the following:

If the goods are to be sent by a COURIER SERVICE, send the goods to:

Pelco
3500 Pelco Way
Clovis, CA 93612-5699 USA

If the goods are to be sent by a FREIGHT FORWARDER, send the goods to:

Pelco c/o Expeditors
473 Eccles Avenue
South San Francisco, CA 94080 USA
Phone: 650-737-1700
Fax: 650-737-0933



This equipment contains electrical or electronic components that must be recycled properly to comply with Directive 2002/96/EC of the European Union regarding the disposal of waste electrical and electronic equipment (WEEE). Contact your local dealer for procedures for recycling this equipment.

REVISION HISTORY

Manual #	Date	Comments
C1405SM	6/98	Original version.
C1405SM-A	5/06	Updated exploded assembly drawings. Marked EH4722L as obsolete. Removed obsolete SS4718L and SS4722L products. Updated format.

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